



The Advanced Certificate in International Biological Sciences Security Management

In cooperation with



Public Health
Agency of Canada

Agence de la santé
publique du Canada



A 10-Day intensive workshop on applied dual-use biosecurity, biosafety and bioethics.

Monday August 13 to Friday August 24, 2012

Carleton University, Ottawa, Ontario Canada

The Office of Professional Training and Development at Carleton University's Norman Paterson School of International Affairs, the Public Health Agency of Canada and University of Bradford (UK) are pleased to announce a cooperative Program in International Biological Sciences Security Management and the pilot offering of the first Advanced Certificate in International Biological Sciences Security workshop this August 2012.

Workshop Objective:

This 10 – day, intensive program has a focus on Canadian and international biosafety, dual-use biosecurity and bioethics and is intended for the training of personnel in facilities handling human pathogens and toxins, bringing issues of dual-use to a broader community, and to enhance biosafety and biosecurity practices in a Biological Sciences Security Management framework nationally and internationally. This cooperative program, featuring expert instructors from the Public Health Agency of Canada and the Office of Dual-Use Biosecurity Education at Bradford, is the first step in the development of a joint curriculum on biosafety and biosecurity for life scientists in Canadian institutions.

What you will learn:

1. The concepts of biosafety and biosecurity and its relevance to biosecurity within the laboratory.
2. Management of biosafety and biosecurity risks.
3. Dual-use conundrums and dilemmas that arise due to the impact of science and technology on society.
4. Ethical, legal and social relevance of dual-use biosecurity.
5. Approaches to the responsible conduct of research and other work.
6. Facilitate further research into 'dual-use' biosecurity issues and develop policies and practices that will enhance responsible conduct of research and other work to prevent the misuse of knowledge generated by life and associated sciences.

Who Should Take This Workshop:

This course is intended for those responsible for and undertaking activities with pathogens, including researchers, biosafety officers, principal investigators, post-doctoral fellows, graduate students, etc. This is a high level course that requires only basic knowledge of biosafety. However, this course will also benefit those with a high-level of biosafety knowledge.

Learning and Training Strategy:

The workshop will combine lectures, discussion groups and hands-on tabletop exercises. By using real life examples and case studies for dual-use, bioethics, risk assessment, biosafety program management and performance improvement we will emphasize the importance and benefits of raising awareness and understanding of the concepts of biosafety and its relevance to dual-use biosecurity.

You are encouraged to bring your own personal ideas and experiences to the course, sharing these with your fellow participants in order to contextualise your knowledge and understanding in ways that will help you meet the challenges of biosafety program management and of conducting responsible research of relevance to dual-use biosecurity.

Learning Outcomes

After successfully completing this ten-day workshop, participants will be able to:

- Explain the international and national controls with regards to biosafety, biosecurity and bioethics applicable to facilities and associated scientists handling pathogens.
- Apply a framework for risk assessment to biosafety, biosecurity and dual-use risks and hazards associated with pathogens.
- Analyse the ethical and social responsibilities of life scientists with reference to the responsible conduct of research and other work
- Integrate dual-use biosecurity, biosafety and bioethical issues and concerns into their program.
- Contribute to the development and implementation of relevant country-specific and institutional mechanisms, guidelines, regulations and legislation.
- Explain the key components of administrative controls that a facility has to put in place to mitigate biosafety and biosecurity risks.
- Develop a strategy for the implementation of a biosafety management program in a facility handling pathogens
- Organise and synthesise ideas and questions on dual-use biosecurity, biosafety and bioethics relevant to the conduct of research and other work with pathogens.

COURSE FEE: \$ 5,000.00 + HST = \$5,650.00 (fees are in Canadian dollars)

IMPORTANT INFORMATION FOR PROSPECTIVE CANDIDATES

Prerequisite Study for Participation:

All participants are asked to complete the following on-line modules of the Principles of Laboratory Biosafety course:

- Risk Group Definitions and Containment Classification
- Laboratory Acquired Infections
- Pathogen Security Series:
 - ❖ Introducing Biosecurity
 - ❖ Risk and Classification
 - ❖ Biosafety Program - Biosecurity Plan

The Principles of Laboratory Biosafety online course series is available through the Public Health Agency of Canada's *Biosafety e-Learning and Training Resources Portal* at www.publichealth.gc.ca/training (select the Laboratory Biosafety and Biosecurity tab). Registration is required to access the portal and complete the online courses, however these courses are available free of charge.

Certification:

The Advanced Certificate in International Biological Sciences Security Management is a pilot offering made through Carleton University's Office of Professional Training and development at the Norman Paterson School of International Affairs (NPSIA-PT&D). NPSIA-PT&D is responsible for non-credit training and programming at NPSIA and is working with the Public Health Agency of Canada and the University of Bradford (UK) to establish a professional standard and credential for biological sciences security management that combines the critical areas of biosafety, biosecurity and bioethics. This pilot is a preliminary step in that process.

Concerning the successful completion of this program by registered candidates, participants will receive a certificate with the program title from Carleton University and the Norman Paterson School of International Affairs. Candidates should note that this workshop is 'participatory' in nature. Therefore, the expectation is that each person will contribute, to the fullest of their ability, in a collective, adult / professional learning experience. Any exams, tests or scored assignments during the program do not count toward a pass or fail.

Receipt of certification is dependent on attendance. Participants are required to sign a record of attendance for each day of training. We understand that participants are taking precious time away from work to attend this workshop and to this end we try to be as flexible as possible in terms of allowing absences. Our policy is to permit a maximum absence of 3 hours per 12 hours of training. This program will deliver a minimum of 48 hours of contact training. Consequently, 2 days absence from the workshop is permissible unless otherwise stated by the trainer(s). Also, the instructors may indicate 'critical' learning at the outset of the program that must be attended as a mandatory condition of certification. We regret that we will not be able to issue a Certificate for those unable to attend for the required duration or are unable to participate in mandatory parts of the program.

In the event of the development of a future standard and credential as an outcome of this program NPSIA-PT&D, the Public Health Agency of Canada and University of Bradford (UK) will work with certificate holders to achieve any future professional designation.

Program Agenda and Training Schedule:

The program agenda and schedule are currently under review. Notification of the agenda and schedule will be available no later than June 15, 2012. Please consult the NPSIA-PT&D web site at www.carleton.ca/npsia-ptd/ for up-dates.

Accommodation at Carleton University while in Ottawa:

Out of town and international Participants are invited to make use of Carleton University's Summer Residence program during their stay in Ottawa. The cost for accommodation on campus is as follows:

Rates: per person (sgl) or Total for Double or Suite/night (including all you can eat breakfast) – COST IN CANADIAN DOLLARS, TAXES INCLUDED All Bedrooms share washrooms unless noted below.			Regular	Alumni
Single Room	1 Sgl Bed or 1 Dbl Bed (please circle preference)	1 Person only	\$ 72.32	\$ 57.07
Double Room	1 Dbl Bed or 2 Sgl Beds	2 People Max.	\$ 83.62	\$ 77.04
Private Room For 1	1 Sgl Bed with private washroom	1 Person only	\$110.74	\$ 86.32
Private Room For 2	1 Dbl Bed with private washroom	2 People Max.	\$127.69	\$116.71
Suite Special 2 Bedroom Suite ONLY	2 bedroom suite with 1 double size bed in each room only: therefore 3 & 4 people will be sharing beds	2 People Total	\$ 134.47	\$122.81
		3 People Total	\$ 141.54	\$130.07
		4 People Total	\$ 149.16	\$137.82
Family Deal 2 Bedrooms	2 adults maximum + up to 2 children age 12 & under maximum in 2 Bedrooms ONLY.	3 or 4 people: 4 sgl beds or 2 dbl beds (please circle)	\$132.21	\$122.58
Hostel Style Glengarry - no linen or daily housekeeping	1 single bed in a shared room with shared bathroom	1 person only	\$ 56.50	NA

To learn more about Summer Residence accommodation at Carleton University please visit:
<http://www2.carleton.ca/housing/conference-services/guest-accommodations/>

To download the Summer Residence registration form please click here:
<http://www2.carleton.ca/housing/ccms/wp-content/ccms-files/2012-Overnight-Reservation-Application.pdf>

For a map of Carleton University please visit:
<http://www1.carleton.ca/campus/>

BIOGRAPHIES OF PRINCIPLE TRAINERS AND FACILITATORS

Dr. Malcolm Dando

Malcolm Dando is Professor of International Security at Bradford Disarmament Research Centre, Division of International Relations and Security Studies, Division of Peace Studies, School of Social and International Studies, University of Bradford, UK. Malcolm completed his Doctoral Research in Biology and since 1978 he has worked on weapons non-proliferation issues. He has focused since the mid 1990s on biological and chemical non-proliferation and on strengthening respective prohibition regimes in these areas. In regard to biological non-proliferation he has made significant academic and policy contributions to the process of strengthening the Biological Weapons Convention (BWC) and has produced more than 5 single-authored books, as well as many journal articles and reports. Between 1998 and 2006 he has received more than 1 million dollars in financial support from the Carnegie Corporation of New York for his work on strengthening the BWC. Together with Bradford colleagues and colleagues from Universities at Bath, Canberra, and Exeter has received £350,000 from the Wellcome Trust for a pioneering 5-year programme of research that seeks to build a sustainable capability in dual-use bioethics. With financial support from the British Council he has developed an Education Module Resource for building capacity in the teaching of dual-use biosecurity and bioethics to life- and associated sciences. He has contributed to the development and implementation of online distance learning and short courses in dual-use biosecurity / bioethics education. His current research focuses on the bioethics of neuroscience.

Ms. Marianne Heisz

Marianne Heisz is the Director, Office of Biosafety Programs and Planning with the Pathogen Regulation Directorate at the Public Health Agency of Canada. In this capacity, Marianne directs a team responsible for pathogen risk assessment, biosafety training, biosafety regulatory investigation and standards and guidelines, which includes the Canadian Laboratory Biosafety Guidelines. Marianne is also responsible for the human pathogen component of Canada's annual Confidence Building Measures under the Biological and Toxins Weapons Convention (BTWC), and has been an active participant of the Canadian delegation at BTWC Meetings of States Parties, Meetings of Experts and Review Conferences since 2001, as well as at Australia Group meetings since 2009, due to her specialization in biosafety, biosecurity and regulatory oversight. She holds a Masters Degree from the University of Ottawa in Microbiology and Immunology, and is a regular speaker at conferences around the world on the topic of biosafety and regulatory oversight of human pathogens.

Dr. Masamichi Minehata

Dr. Masamichi Minehata is a research fellow at the University of Bradford, UK sponsored by the UK Bioengagement Programme (UKBEP) sponsored by the DSTL UK Ministry of Defence, and a non-resident SPF Fellow at the Pacific Forum-Center for Strategic and International Studies (CSIS), USA. He holds a Ph.D. and MA from the Department of Peace Studies of the University of Bradford on the issues of Biological Weapons Convention (BWC). From 2008 to 2010, he worked for the UK Prime Minister's Initiative on International Education to promote biosecurity education in cooperation with the National Defense Medical College in Japan and Landau Network Centro Volta in Italy (awarded by the British Council, UK). He has widely published both in English and Japanese.

Ms. Tatyana Novossiolova

Tatyana Novossiolova is a Wellcome Trust Doctoral Researcher at the Bradford Disarmament Research Centre. Tatyana's main research interests are international law and disarmament with a focus on biosecurity and governance of emerging technologies. She is currently working on a project on improving the governance of biotechnology in Post-Communist Russia. Tatyana has been involved in curricula development for several programmes, both on undergraduate and postgraduate level, including Arms Control and Disarmament, Critical Perspectives on Arms Control and the 30-credit MA distance learning train-the-trainer Applied Dual-Use Biosecurity module. She has delivered lectures and seminars, co-authored academic publications and presented papers at international conferences. She holds a BA (Hons) Degree in International Relations and Security Studies.

Dr. Judi Sture

Dr Judi Sture, PhD, is a member of Bradford Disarmament Research Centre at the University of Bradford, UK. She is also Head of the University's Graduate School and a senior lecturer in Research Ethics and Research Methods. Her PhD in Biological Anthropology (University of Durham, UK), which was fully funded by the British Academy, focused on environmental associations with human birth defect frequencies, reflecting her interest in the role of infectious agents in human health and disease. Her current research interests focus on biosecurity and ethics in society, and she takes an anthropological approach to the promotion of a social responsibility perspective in biosecurity norms among life scientists.

Judi has received funding for her research work from the Wellcome Trust (UK), the Economic and Social Research Council (UK), the Japan Society for the Promotion of Science and the UK Ministry of Defence and Defence Science and Technology Laboratory (DSTL). She is currently engaged in the development and delivery of the National Series, a set of country-specific educational modules focusing on biosecurity engagement and education in a range of countries around the world. This is funded by the UK MoD and DSTL. Judi has presented her work at many international conferences and meetings and has hosted, organised and/or led conferences and workshops on biosecurity education in the UK and overseas. She is also part of a team developing and delivering online distance learning and short-courses in applied dual-use bioethics and biosecurity education. She has published on dual use issues, applied research ethics and cultural behaviours.

Dr. Stefan Wagener, RBP, CBSP

Dr. Stefan Wagener is the Scientific Director for Biorisk Management at the National Microbiology Laboratory (Public Health Agency of Canada), in Winnipeg. He is also an advisor to the WHO and the Canadian Global Partnership Program (Department of Foreign Affairs and International Trade Canada) programming and working in the FSU, Asia and Africa.

Dr. Simon Whitby

Dr Simon Whitby (Director of Bradford Disarmament Research Centre, Director of Dual-Use Biosecurity Education, and Director of Undergraduate Studies (DUS), Division of International Relations and Security Studies, Division of Peace Studies, School of Social and International Studies. Since 2009, Whitby has worked at the interface between the life science and national security communities to address the threat of deliberate disease in the context of rapidly advancing science and dual-use technology. Whitby's work has focused on contributing to the discourse on dual-use biosecurity and bioethics and thus on raising awareness at government, civil society, life science and industry levels about the ethical, legal and social implications of life science research. He has been actively engaged in building a world-wide capability in dual-use bioethics to engage the scientific community in awareness-raising programmes about the importance of responsible conduct of life science research. Significantly he has developed a novel and innovative online distance learning Masters level train-the-trainer programme and short courses in Applied Dual-Use Biosecurity / Bioethics which has attracted over the period of the last 2 years (2010-11 – 2011-12) bursaries funded by the United States Department of State Biosecurity Engagement Programme. Simon has just been awarded £100,000 (+) from the Royal Ministry of Foreign Affairs, Government of Norway, for the drafting, editing and production of the BioWeapons Monitor.



Professional Training Registration Form

Contact Information

Name		
Department, Agency or Company		
Street Address		
City, Prov., Postal Code		
Home Phone & Fax	Tel:	Fax:
Work Phone		
E-Mail (work & personal)	Work:	Personal:

If you are not alumni of NPSIA or a member of the Ottawa Diplomatic Association would you like to receive email announcements on future training programs? Yes___ / No___.

If yes please circle or highlight your preferred email address above.

Program

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- 9 AM - 4 PM daily, Monday August 13 to Friday August 24, 2012 -

Fees

\$ 5,000.00 + HST = \$ 5,650.00

Payment

Credit Card	Type: VISA / MC / AMEX	Number:	Exp:
3-Digit Security # (on card back):		Signature:	
Cheque / Money Order or Bank Draft please tick <input type="checkbox"/>		Name of card holder if different:	
Corp. Training Agreement		An invoice will be sent to your immediate attention. Subsequent payment should be made to the attention of: "Carleton University" Please make reference to "NPSIA-PT&D Registration" on the cheque.	
		Reference #:	

Refund policy: Course registration fees are refundable up-to July 10, 2012 less \$ 250.00 + HST for administration. This policy does not apply to Corp. Training Agreements.

Cancellation policy: NPSIA – PT&D reserves the right to cancel scheduled training programs up-to 30 business days in advance of the start of training should there be insufficient subscription. Full refunds will be issued upon notification.

Complete your Registration

Fax or email this registration form to NPSIA-PT&D at the coordinates below. Cheque, Money Order or Bank Draft payments should include a copy of this registration form. Please note that your registration is not complete until payment has been received.

Registration - The Office of Professional Training and Development
NPSIA – PT&D, Room 2118 Dunton Tower, Carleton University. 1125 Colonel By Drive, Ottawa, ON K1S 5B5 Canada
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